		BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR		
LLL	III	BBB BBB	RRR RRR	III	LLL
LLL	III	BBB BBB	RRR RRR	III	LLL
LLL	111	888 888	RRR RRR	III	LLL
LLL	111	888 888	RRR RRR	III	LLL
LLL	111	88888888BBB	RRRRRRRRRRR	III	LLL
LLL	111	B8888888BBB	RRRRRRRRRRR	III	LLL
LLL	111	888888888B	RRRRRRRRRRR	III	LLL
LLL	111	88B 88B	RRR RRR	III	LLL
LLL	111	888 888	RRR RRR	III	LLL
LLL	111	BBB BBB	RRR RRR	III	LLL
LLL	111	BBB BBB	RRR RRR	III	LLL
LLL	111	BBB BBB	RRR RRR	III	LLL
LLL		BBB BBB	RRR RRR	III	LLL
LLLLLLLLLLLLLLL	111111111	BBBBBBBBBBBB	RRR RRR	III	LLLLLLLLLLLLLLLLL
LLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL	111111111	88888888888	RRR RRR	III	LLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL
LLLLLLLLLLLLLLLLL	111111111	88888888888	RRR RRR	TTT	LLLLLLLLLLLLLLLL

LI



LIB 1-0

E 11 16-SEP-1984 00:18:08 VAX/VMS Macro V04-00 LIB\$SCANC Table of contents - Scan for character Page 0 (2) 62 DECLARATIONS LIBSSCANC - Scan characters

11B

LIB 1-0

.TITLE LIB\$SCANC - Scan for character .IDENT /1-007/ ; File: LIBSCANC.MAR Edit: SBL1007

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; FACILITY: General Utility Library

F 11

ABSTRACT:

Return an index into the source string of the satisfying character or zero

ENVIRONMENT: User Mode, AST Reentrant

AUTHOR: Donald G. Petersen, CREATION DATE: 03-Jan-78

MODIFIED BY:

DGP, 03-Jan-78: VERSION 00
01 - Original
00-02 - DGP 05-Jan-78 - table.rbu.ra for table.rt.dx
00-03 - DGP 18-Jan-78 - remove one instruction
1-001 - Updated version number and copyright notice. JBS 16-NOV-78
1-002 - Add "" to the PSECT directive. JBS 21-DEC-78
1-003 - fix entry mask to save R2 and R3 which get clobbered.
SBL 02-Feb-79

1-004 - Enhance to recognize additional classes of string descriptors by invoking LIBSANALYZE\_SDESC\_R3 to extract length and address of 1st data byte from descriptor. RKR 22-MAY-1981

1-005 - Add special-case code to process string descriptors that "read" like fixed string descriptors. RKR 7-0CT-1981.

1-006 - Redirect jsb's from LIBSANALYZE\_SDESC\_R3 to

H 11

```
\<u>1</u>
```

: R

```
- Scan for character
LIBSSCANC - Scan characters
                                                                                                                                      VAX/VMS Macro V04-00
[LIBRTL.SRC]LIBSCANC.MAR;1
                                                    .SBTTL LIBSSCANC - Scan characters
                                      FUNCTIONAL DESCRIPTION:
                                                  The bytes of the string specified by the source descriptor are successively used to index into a the table. The byte selected from the table is ANDed with the mask byte specified by the mask descriptor. The operation continues until the result of the AND is non-zero. The relative position of the character in the source string which terminated the operation is returned if one is found. Otherwise, zero is returned. If the source string has a length of zero then a zero is returned.
                                      CALLING SEQUENCE:
                                                   index.wlu.v = LIB$SCANC (src.rt.dx, table.rbu.ra, mask.rbu.r)
                                      INPUT PARAMETERS:
                                                    SOURCE = 4
                                                                                                                       ; Adr of source string desc
                                                   TABLE = 8
MASK = 12
                                                                                                                       : Adr of base of table
                                                                                                                       ; adr of mask byte
                                      IMPLICIT INPUTS:
                                                   NONE
                                      OUTPUT PARAMETERS:
                                                   NONE
                                      IMPLICIT OUTPUTS:
                                                   NONE
                                      FUNCTION VALUE:
                                                   INDEX.wlu.v
                                                                                                     ; the resulting position
                                      SIDE EFFECTS:
                                                   NONE
                                                   .ENTRY LIB$SCANC , ^M<R2, R3, R4>
MOVL SOURCE(AP), R0
JSB G^LIB$ANALYZE_SDESC_R2
                                                                                                                     ; Entry point
; address of SOURCE descriptor
; Extract: length->R1, addr->R2
; save length of SOURCE
  DO
16
30
                                                   MOVL
                                                   MOVZWL
                                                                   R1, R4
                                                                   R4, (R2), aTABLE(AP), aMASK(AP); Scan character; State of regs after a SCANC instr.; R0 = number of bytes remaining in source string (including the byte; which produced the nonzero AND)
  2A
```

I 11

LIBSSCANC

08 BC

OC BC

:

LIB 1-0

; R

LIB 1-0

Macro Library name

Macros defined

\_\$255\$DUA28:[SYSLIB]STARLET.MLB;2

-

190 GETS were required to define 4 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL, TRACEBACK)/LIS=LIS\$:LIBSCANC/OBJ=OBJ\$:LIBSCANC MSRC\$:LIBSCANC/UPDATE=(ENH\$:LIBSCANC)

0209 AH-BT13A-SE

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